

To: Jonathan Koplos[Jonathan.Koplos@cadmusgroup.com]; Jim Walker[**Ex. 6 - Personal Privacy**]
From: Rumrill, Nancy
Sent: Tue 5/3/2016 11:19:01 PM
Subject: RE: Work Request on Florence Copper

Sounds fine. I did not see electronic copies of the modeling in the application. There are materials describing the modeling input and results. Two issues mentioned by ADEQ are Excelsior is claiming no USDW exists and Hydraulic Control is to be maintained by a group of wells downgradient of the injection wells. I think we may need additional information on these issues.

Thanks, Nancy



United States Environmental Protection Agency

Nancy Rumrill (rumrill.nancy@epa.gov)

Drinking Water Protection Section (WTR-3-2)

US EPA, Region IX

75 Hawthorne St.

San Francisco, CA 94105

Phone (415) 972-3293

From: Jonathan Koplos [mailto:Jonathan.Koplos@cadmusgroup.com]
Sent: Tuesday, May 03, 2016 1:52 PM
To: Jim Walker [**Ex. 6 - Personal Privacy**]; Rumrill, Nancy <Rumrill.Nancy@epa.gov>
Subject: RE: Work Request on Florence Copper

Think it would be good if Inci Demarkanli (Cadmus modeler and person QA'ing Jim's Excelsior

work) and I join the call tomorrow at 2pm PT (5pm ET) if that's ok.

If so, I'll send out an invite and call-in number.

Thank you Nancy (and Jim).

Jonathan

From: Jim Walker [mailto:jwalker@cadmusgroup.com] **Ex. 6 - Personal Privacy**
Sent: Friday, April 29, 2016 5:43 PM
To: Rumrill, Nancy <Rumrill.Nancy@epa.gov>
Cc: Jonathan Koplos <Jonathan.Koplos@cadmusgroup.com>
Subject: Re: Work Request on Florence Copper

Wednesday at 2 pm PT works for me.

Jim

From: [Rumrill, Nancy](mailto:Rumrill.Nancy@epa.gov)
Sent: Friday, April 29, 2016 2:58 PM
To: [Jim Walker](mailto:jwalker@cadmusgroup.com)
Cc: Jonathan.Koplos@cadmusgroup.com
Subject: RE: Work Request on Florence Copper

Wednesday afternoon, 2 pm Pacific time? Nancy



United States Environmental Protection Agency

Nancy Rumrill (rumrill.nancy@epa.gov)

Drinking Water Protection Section (WTR-3-2)

US EPA, Region IX

75 Hawthorne St.

San Francisco, CA 94105

Phone (415) 972-3293

From: Jim Walker [[mailto:](#) **Ex. 6 - Personal Privacy**]
Sent: Friday, April 29, 2016 12:50 PM
To: Rumrill, Nancy <Rumrill.Nancy@epa.gov>
Cc: Jonathan.Koplos@cadmusgroup.com
Subject: Re: Work Request on Florence Copper

Hi Nancy,

Let's schedule the call for next week. I also haven't spent much time on Excelsior this week. Let me know when would be a good time for you. Maybe on Tuesday or Wednesday..

Jonathan: Do you want to be on the call?

Thanks,

Jim

From: Rumrill, Nancy

Sent: Friday, April 29, 2016 1:19 PM

To: Jim Walker

Cc: Jonathan.Koplos@cadmusgroup.com

Subject: RE: Work Request on Florence Copper

Hi Jim,

Thanks. Consultation under Task 5. Sorry, I'm not able to spend much time on Excelsior this week, but I am available today for a half hour if you want to have a call this afternoon. Otherwise, next week I'm available.

Nancy

~~~~~



*Nancy Rumrill ([rumrill.nancy@epa.gov](mailto:rumrill.nancy@epa.gov))*

*Drinking Water Protection Section (WTR-3-2)*

*US EPA, Region IX*

*75 Hawthorne St.*

*San Francisco, CA 94105*

*Phone (415) 972-3293*

**From:** Jim Walker [mailto:[Ex. 6 - Personal Privacy](#)]  
**Sent:** Tuesday, April 26, 2016 10:06 AM  
**To:** Rumrill, Nancy <[Rumrill.Nancy@epa.gov](mailto:Rumrill.Nancy@epa.gov)>  
**Cc:** [Jonathan.Koplos@cadmusgroup.com](mailto:Jonathan.Koplos@cadmusgroup.com)  
**Subject:** Re: Work Request on Florence Copper

Hi Nancy,

The January 2015 groundwater elevations are presented in Figure 4-4 of the September 14, 2015 letter from FCI to ADEQ. I should have included that as the source in my comments below.

This statement is based on the discussion of “Pump and Treat Technology” on page 27 of the USGS Open-Field Report 2009-1143, authored by Susan Hall and referenced in my comment. The percentages are based on Hall’s review of a Texas database of restoration results at 17 Texas well fields as summarized in Table 9 in that report. The 2109 percent quoted is based on results in four well fields using groundwater sweep only and the 48 percent figure is based on the restoration results in three well fields that applied both GW sweep and RO methods.

If you have any questions, please let me know.

Should the time to develop this response be charged to Task 4 or 5?

When would you be available this week to discuss the Gunnison ISCR permit application (Excelsior Mining)?

Thanks,

Jim

**From:** Rumrill, Nancy

**Sent:** Monday, April 25, 2016 6:16 PM

**To:** Jim Walker

**Cc:** Jonathan.Koplos@cadmusgroup.com

**Subject:** RE: Work Request on Florence Copper

Hi Jim,

## **Ex. 5 - Deliberative Process**

## Ex. 5 - Deliberative Process

These are clarifications for information that you cited. Let me know. Nancy



United States Environmental Protection Agency

*Nancy Rumrill ([rumrill.nancy@epa.gov](mailto:rumrill.nancy@epa.gov))*

*Drinking Water Protection Section (WTR-3-2)*

*US EPA, Region IX*

*75 Hawthorne St.*

*San Francisco, CA 94105*

*Phone (415) 972-3293*

**From:** Jim Walker [<mailto:>] **Ex. 6 - Personal Privacy**  
**Sent:** Thursday, March 31, 2016 10:31 AM  
**To:** Rumrill, Nancy <[Rumrill.Nancy@epa.gov](mailto:Rumrill.Nancy@epa.gov)>  
**Cc:** [Jonathan.Koplos@cadmusgroup.com](mailto:Jonathan.Koplos@cadmusgroup.com)  
**Subject:** Re: Work Request on Florence Copper

Hi Nancy,

## **Ex. 5 - Deliberative Process**

## **Ex. 5 - Deliberative Process**



## **Ex. 5 - Deliberative Process**

## **Ex. 5 - Deliberative Process**

Thanks,

Jim

**From**

: Rumrill, Nancy

**Sent:** Friday, March 25, 2016 2:27 PM

**To:** Jim Walker

**Subject:** Work Request on Florence Copper

Hi Jim,

I need some additional input on response to comments from Florence Copper. Please see attached file for the comments. I want to request some review and recommendation for response to 1a, 1e, and 3 (3 – second paragraph). I had in mind some explanation on how Florence Copper would be allowed to adjust their extraction to injection ratio relating to items 1a and 1e. In addition, item 3 has an estimate of 85 years to the capture zone of the nearest drinking water well - how does this differ from our estimate? If you are available this afternoon, we can discuss it by conference call. Or, I'm out until Thursday next week and can talk to you then.

Thanks, Nancy



United States Environmental Protection Agency

*Nancy Rumrill ([rumrill.nancy@epa.gov](mailto:rumrill.nancy@epa.gov))*

*Drinking Water Protection Section (WTR-3-2)*

*US EPA, Region IX*

*75 Hawthorne St.*

*San Francisco, CA 94105*

*Phone (415) 972-3293*